CETIFICATION

SDG No:

JC18649R

Laboratory:

Accutest, New Jersey

Site:

BMS, Building 5 Area, PR

Matrix:

Soil

Humacao, PR

SUMMARY:

Soil samples (Table 1) were collected on the BMSMC facility – Building 5 Area. The BMSMC facility is located in Humacao, PR. Samples were taken April 18, 2016 and were analyzed in Accutest Laboratory of Dayton, New Jersey for low molecular weight alcohols (LMWA):- isopropyl alcohol and sec-butyl alcohol. The results were reported under SDG No.: JC18649R. Results were validated using "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods SW-846 (Final Update III, December 1996)," specifically for Methods 8000/8015C are utilized and the latest validation guidelines (July, 2015) of the EPA Hazardous Waste Support Section. The analyses performed are shown in Table 1. Individual data review worksheets are enclosed for each target analyte group. The data sample organic data samples summary form shows for analytes results that were qualified.

In summary the results are valid and can be used for decision taking purposes.

Table 1. Samples analyzed and analysis performed

SAMPLE ID	SAMPLE DESCRIPTION	MATRIX	ANALYSIS PERFORMED
JC18649-3R	RA13 (5-6)	Soil	LMWA:- ISOPROPYL ALCOHOL AND SEC- BUTYL ALCOHOL

Reviewer Name:

Rafael Infante

Chemist License 1888

Signature:

Date:

June 7, 2016

A 1584951

Method:

Project:

SGS Accutest

Report of Analysis

Page 1 of 1

Client Sample ID: RA13(5-6)
Lab Sample ID: JC18649-3R
Matrix: SO - Soil

SO - Soil

SW846-8015C (DAI) BMSMC, Building 5 Area, PR Date Sampled: 04/18/16 Date Received: 04/20/16 Percent Solids: 81.0

File ID DF **Analytical Batch** Analyzed By Prep Date Prep Batch XPL Run #1 a GH105133.D 1 05/20/16 GGH5293 n/a n/a Run #2

Initial Weight Run #1 5.0 g

Run #2

CAS No. Compound RL MDL Result Units Q 67-63-0 Isopropyl Alcohol ND 120 70 ug/kg 78-92-2 sec-Butyl Alcohol ND 120 66 ug/kg CAS No. Run# 2 Limits Surrogate Recoveries Run#1 111-27-3 Hexanol 111% 52-141% 111-27-3 Hexanol 112% 52-141%

(a) Sample analyzed outside the holding time per client's request.



ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

SGS SO ACCU	JTEST	W	CHA 2235	SGS A Route 1 29-0200	count = 10, Days FAX.	Doyum m, NJ 01 732-329-	1820				,	36			360	29	lace of	Ones Co	esign i	_	
				trero.	twing?		STOL S	200	14071	建 生物	AND A	10.97	*SO.*	100 p	and the same	news		MEAN	<u> </u>	<u>ر</u>	18645
Indoor Mulholland Associac	Project Heave					1.				CONTRACT						Name of	1003		100		Matrix Cod
MOUTH HULH GIAND HERE-IAC	D W	15 Robe	asc n	_ لامح	SIN	311					_],	d.		9		1		1			DW - Orinang to GW - Ground V
2700 Westchester		4000				nn / 17 mm					100	$\int [a]$	N'3	200	2	1			ł I		SW - Syrlege V
urchase NY	HUM	1000	PR	Compa	rly Harris						ᅱ.	272	X0/3 X	4	ч						SO - God St. States SED-Sedens
Terry Taller	Prosect #	1-40	10	Serves /	dress				_		- 1	- 1	X =	氇	4		1		J		CI+ CII LIQ-Other Lic
TALL TALL	Client Purchase	n Cittler II	_	Car			- 6	imba		Zm	_ -	- Merido	3 3		<u>Z</u>				Ιí	- 1	AR - Ar SOL - Other S
111-251-0400	1	9.31						_		49	. 8	- Kata	֓֞֞֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֡֡֓֓֓֓֓֡֡֓֓֡֡֡֡]=	g G			1	1	ļ	WP - Wps FB-Falls Dar
ory Taylor, Negtor Pivon David	Adstra	2		Allegration	m;							43			Ŧ				1 1	-	EB-Equipment (RB-Rinne Da
			Collection	-	1	Г		Nemer		d Ballion	Ⅎ,	ء ان	ی اع	3	¥						19-Trip Blan
Field ID / Point of Collection	Michigan	Dame .		-	1_		o Š	9	MOMIL	ğ 8	Π_i	200	N.		₹ .			Ì			
RAIA-GWD		Aliolis	1200	-	-		3	++	. - -	1 2	 - -`	4-	7 C	1=	<u> </u>	 	\vdash		1	_	LAB USE ON
RAID-GWD	1	Alighe	1200	17		3	3	╁┼	4	╁	HX	ЦX	X	1×	-	-	-	<u> </u>	\vdash	-	E34
RAI3 (5-6)		4/18/16	1400	NR		2	9-	╁┼	2	╫	- ×	-1-0	X	+3	+-	┼—	-	-	-	-	VIOY
RAIS- TWS	1	4/18/16	1715	77	GW	7	3	††	4	╁┼	H 3	+	1	╬	+	-	\vdash	\vdash	\vdash		
RAI3-GWD	-	4/17/16	1230	17	GW	7	2	††	Z	11	HŞ	+7	P	₩	-	+-	-		\vdash	+	+
								П	71	T	Ho	†^	1	*	†-	\vdash	-			\dashv	
									Π			\top	\top	\vdash	\top	\vdash			-	+	+
								П	П						2	4		\Box	\vdash	_	
1	-						\perp	Щ	Ц	Ш	INI	rkt./	\$ES	MEI	φZ	110				+	
		-			\square		4	Ш	Ш	Ш	14	UL V	eRIF	CATI	gN.	6					
						-	+	Н	₩.		Ц_	\perp	┺	_	L.					\perp	
Turnerand (she (Business days)	B10	1989/298	Sec.	1035		Date				Щ	12.5	State	1000								
Mar. 10 Buseries Days For Soil	**************************************	Account Pilp: / Book			-						Inquity A		Λ	13	ريست				Irmirusion		· 新春 "在 255
2 Day Russi					ULLTI (I					IABP C. min Paris	Magury II. Na		17	0 1	* IV	COM	T:	- 1	1chy/	14F	athelene.
S Day RUSH				문:	A. Physical					20 Form			1	(if	1 3	VO	C h	Y /	<u>Methi</u>	20 3	270D
For Aqueous					KJ Date 6		Occality	Protoc		100g 100g				leri d	2 > 1	?o.	س ا	, , ,	Ro	r -	- Mealer
many risk & Florin TSA draw averlebbs \SA Labbes		_	-	Carring All Resta	M'A' - R		. Come	PARCUS *	n' - Par	ults • CK	Summer	,	1								
All street, the I wan		mple Custody my		يدرا استدد	tow each	time 234	Apriles I	dan gr	10000	salon, le	chuding	conte	delive	ry.			rahipd (apon i	TC	the La	borntory
0 9 - 1 - 1	16 1500	Fed	EX					Ťζ	2	<u>>=</u>				4/2	0/16	71	2	"C			
State of Sta		Numbered the 3						and by		-	<u> </u>			Gasa Ta	_	\neg		i Byr	41		
Comp (Time):		Resident By:								10	-	_	-	_			•				

JC18649R: Chain of Custody Page 1 of 3

EXECUTIVE NARRATIVE

SDG No:

JC18649R

Laboratory:

Accutest, New Jersey

Analysis:

SW846-8015C

Number of Samples:

1

Location:

BMSMC, Building 5 Area

Humacao, PR

SUMMARY:

One (1) sample was analyzed for selected low molecular weight alcohols (LMWAs):-isopropyl alcohol and sec-butyl alcohols, following method SW846-8015C. The sample results were assessed according to USEPA data validation guidance documents in the following order of precedence: "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods SW-846 (Final Update III, December 1996)," specifically for Methods 8000/8015C are utilized. The QC criteria and data validation actions listed on the data review worksheets are from the primary guidance document, unless otherwise noted.

Results are valid and can be used for decision making purposes.

Critical issues:

None

Major:

None

Minor:

None

Critical findings:

None

Major findings:

1. Sample analyzed outside the holding time per client's request. Results are qualified in

affected samples: non-detects results are rejected (R).

Minor findings:

None

COMMENTS:

Results are valid and can be used for decision making purposes.

Reviewers Name:

Rafael Infante

Chemist License 1888

Signature:

June 7, 2016

Date:

SAMPLE ORGANIC DATA SAMPLE SUMMARY

Sample ID: JC18649-3R

Sample location: BMSMC Building 5 Area

Sampling date: 4/18/2016

Matrix: Soil

METHOD: 8015C

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable
Isopropyl Alcohol	120	ug/kg	1.0	-	R	Yes
sec-Butyl Alcohol	120	ug/kg	1.0	-	R	Yes

	Project Number:JC18	3649R
	Date:04/1	8/2016
	Shipping Date:04/19	
	EPA Region:	
REVIEW OF VOLATILE Of The following guidelines for evaluating volatile organics were document will assist the reviewer in using professional judg serving the needs of the data users. The sample results a guidance documents in the following order of preceder Physical/Chemical Methods SW-846 (Final Update III, Dece are utilized. The QC criteria and data validation actions listed guidance document, unless otherwise noted. The hardcopied (laboratory name) _Accutest_ and the quality control and performance data summarized. The	e created to delineate required pment to make more informe were assessed according to nce: "Test Methods for Examber 1023R)," specifically for don the data review workshed data package receive modified data review for VC	d decision and in better USEPA data validation valuating Solid Waster Methods 8000/80150 at a re from the primary lived has been reviewed DCs included:
Lab. Project/SDG No.:JC18649R11111	_ Sample matrix:	Soil
Trip blank No.:		
Field blank No.:	· · · · · · · · · · · · · · · · · · ·	
Equipment blank No.:		
Field duplicate No.:		
X Data Completeness	X Laboratory Con	trol Snikes
X Holding Times	X Field Duplicates	
N/A_ GC/MS Tuning	X Calibrations	,
N/A_ Internal Standard Performance	X Compound Iden	itifications
X Blanks	X Compound Qua	ntitation
X Surrogate Recoveries	X Quantitation Lin	
X Matrix Spike/Matrix Spike Duplicate		11172
Overall Comments:_Selected_low_molecular_weight_al	cohols_by_SW-846_80150)
Definition of Qualifiers:		
J- Estimated results		
U- Compound not detected		
R- Rejected data		
UJ- Estimated nondetect////////////		
- Kalland Anda A		
Reviewer: 1 4 aux outaut		
Date:June_7,_2016		

DATA REVIEW WORKSHEETS

DATA COMPLETENESS

MISSING INFORMATION	DATE LAB. CONTACTED	DATE RECEIVED

All criteria were met
Criteria were not met
and/or see belowX

HOLDING TIMES

The objective of this parameter is to ascertain the validity of the results based on the holding time of the sample from time of collection to the time of analysis.

Complete table for all samples and note the analysis and/or preservation not within criteria

SAMPLE ID	DATE SAMPLED	DATE ANALYZED	pН	ACTION
Samples analyze	ed outside the holdi	ng time per client request.	All samp	les properly preserved.
JC18649-3R	04/18/16	05/20/16	-	Sample results qualified: positive results and non-detects are rejected (R).

Criteria

Aqueous samples – 14 days from sample collection for preserved samples (pH \leq 2, 4°C), no air bubbles.

Aqueous samples – 7 days from sample collection for unpreserved samples, 4°C, no air bubbles.

Soil samples- 7 days from sample collection.

Cooler temperature (Criteria: 4 ± 2 °C): 5.7°C

Actions

If the VOCs vial(s) have air bubbles, estimate positive results (J) and reject nondetects (R).

If the % solids of soil samples is 10-50%, estimates positive results (J) and nondetects (UJ)

If the % solid of soil samples is < 10%, estimate positive results (J) and reject nondetects (R).

If holding times are exceeded but < 14 days beyond criteria, estimate positive results (J) and nondetects (UJ).

If holding times are exceeded but < 28 days beyond criteria, estimate positive results (J) and reject nondetects (R).

If holding times are grossly exceeded (> 28 days beyond criteria), reject all results (R).

If samples were not iced or if the ice were melted (> 10°C), estimate positive results (J) and nondetects (UJ).

DATA REVIEW WORKSHEETS

Criteria were not met see below
GC/MS TUNING
The assessment of the tuning results is to determine if the sample instrumentation is within the standard tuning QC limits
N/A_ The BFB performance results were reviewed and found to be within the specified criteria.
N/A_ BFB tuning was performed for every 12 hours of sample analysis.
If no, use professional judgment to determine whether the associated data should be accepted, qualified or rejected.
List the samples affected:
If mass calibration is in error, all associated data are rejected.

DATA REVIEW WORKSHEETS

All criteria were met _X
Criteria were not met
and/or see below

CALIBRATION VERIFICATION

Compliance requirements for satisfactory instrument calibration are established to ensure that the instrument is capable of producing and maintaining acceptable quantitative data.

	Date of initial calibration:05/17/16						
	Dates of init	ial calibration verification	on:05/17/16				
	Dates of cor	ntinuing calibration veri	fication:05/2	20/16			
	Dates of fina	al calibration verification	n:05	/20/16			
		D number:					
	Matrix/Level	:	Aqueous/lo)W			
DATE	LAR FILE ID#	CRITERIA OUT	COMPOUND	SAMPLES	٦		
DAIL	CAD LICE ID#	RFs, %RSD, %D, r	COMPOUND	AFFECTED			
					\Box		
			÷ -				

Note: Initial, continuing, and final calibration verifications meets method specific requirements in the two columns.

Criteria

All RFs must be > 0.05 regardless of method requirements for SPCC.

All %RSD must be \leq 15 % regardless of method requirements for CCC.

All %Ds must be < 20% regardless of method requirements for CCC.

It should be noted that Region 2 SOP HW-24 does not specify criterion for the curve correlation coefficient (r). A limit for r of \geq 0.995 has therefore been utilized as professional judgment.

Actions

If any compound has an initial RF or a continuing RF of < 0.05, estimate positive results (J) and reject nondetects (R), regardless of method requirements.

If any compound has a %RSD > 15%, estimate positive results (J) and use professional judgment to qualify nondetects.

If any compound has a %RSD > 90%, estimate positive results (J) and reject nondetects (R).

If any compound has a % D > 20%, estimate positive results (J) and reject nondetects (R).

If any compound has a % D > 20%, estimate positive results (J) and nondetects (UJ).

If any compound has a % D > 90%, estimate positive results (J) and reject nondetects (R).

If any compound has r < 0.995, estimate positive results and nondetects.

A separate worksheet should be filled for each initial curve

All criteria were met _	X
Criteria were not met	
and/or see below	

V A. BLANK ANALYSIS RESULTS (Sections 1 & 2)

The assessment of the blank analysis results is to determine the existence and magnitude of contamination problems. The criteria for evaluation of blanks apply only to blanks associated with the samples, including trip, equipment, and laboratory blanks. If problems with any blanks exist, all data associated with the case must be carefully evaluated to determine whether or not there is an inherent variability in the data for the case, or if the problem is an isolated occurrence not affecting other data.

List the contamination in the blanks below. High and low levels blanks must be treated separately.

Laboratory blanks

DATE ANALYZED	LAB ID	LEVEL/ MATRIX	COMPOUND	CONCENTRATION UNITS
All_method				
Field/Equipment				
DATE ANALYZED	LAB ID	LEVEL/ MATRIX	COMPOUND	CONCENTRATION UNITS
_No_field/trip/ed	uipment_blank	s_included_in_	this_data_package	
	-			-

All criteria were met _	Х
Criteria were not met	
and/or see below	_

VB. BLANK ANALYSIS RESULTS (Section 3)

Blank Actions

Action Levels (ALs) should be based upon the highest concentration of contaminant determined in any blank. Do not qualify any blank with another blank. The ALs for samples which have been diluted should be corrected for the sample dilution factor and/or % moisture, where applicable. No positive sample results should be reported unless the concentration of the compound in the samples exceeds the ALs:

ALs = 10x the amount of common contaminants (methylene chloride, acetone, 2-butanone, and toluene)
ALs = 5x for any other compounds

Specific actions are as follows:

If the concentration is < sample quantitation limit (SQL) and \le AL, report the compound as not detected (U) at the SQL.

If the concentration is \geq SQL but \leq AL, report the compound as not detected (U) at the reported concentration.

If the concentration is \geq SQL and > AL, report the concentration unqualified.

Notes:

High and low level blanks must be treated separately

Compounds qualified "U" for blank contamination are still considered "hits" when qualifying for calibration criteria.

CONTAMINATION SOURCE/LEVEL	COMPOUND	CONC/UNITS	AL/UNITS	SQL	AFFECTED SAMPLES
<u> </u>					
_				AND DESCRIPTION OF THE PERSON	
· · · · · · · · · · · · · · · · · · ·			1000000		
	-		0000		
1					

All criteria were met _	_X
Criteria were not met	
and/or see below	

SURROGATE SPIKE RECOVERIES

Laboratory performance of individual samples is established by evaluation of surrogate spike recoveries. All samples are spiked with surrogate compounds prior to sample analysis. The accuracy of the analysis is measured by the surrogate percent recovery. Since the effects of the sample matrix are frequently outside the control of the laboratory and may present relatively unique problems, the validation of data is frequently subjective and demands analytical experience and professional judgment. List the percent recoveries (%Rs) which do not meet the criteria for surrogate recovery. Matrix: solid/aqueous

SAMPLE ID		SURROGA	TE COMPOUND		ACTION
	Hexanol	DBFM	TOL-d8	BFB	
_All_surrogate	_recoveries_within_	laboratory_co	ntrol_limits		<u> </u>
				0 8°T	
QC Limits* (Aq					
LL_to_l	UL 73_to_12	to	to	to	•3
QC Limits* (So	iiu-Low) UL52_to_14	l1 to	to	to	
QC Limits* (So	lid-Med)				_
LL_to_l	lid-Med) ULto	to	to	to	
	Dichloromethane-d	4		Toluene-d8 comofluorobenze	ne
	its are laboratory in imits are not availab				
Actions:					
QUAL	ITY	%R < 10%	%R = 10°	% - LL	·UL
Positiv	e results	J	J	J	
Nonde	etects results	R	UJ	Acce	pt

Surrogate action should be applied:

If one or more surrogate in the VOC fraction is out of specification, but has a recovery of > 10%. If any one surrogate in a fraction shows < 10 % recovery.

All criteria were met _X	
Criteria were not met	
and/or see below	

VII. A MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD)

This data is generated to determine long term precision and accuracy in the analytical method for various matrices. This data alone cannot be used to evaluate the precision and accuracy of individual samples. If any % R in the MS or MSD falls outside the designated range, the reviewer should determine if there are matrix effects, i.e. LCS data are within the QC limits but MS/MSD data are outside QC limit.

1. MS/MSD Recoveries and Precision Criteria

The laboratory should use one MS and a duplicate analysis of an unspiked field sample if target analytes are expected in the sample. If target analytes are not expected, MS/MSD should be analyzed.

List the %Rs, RPD of the compounds which do not meet the criteria.

Sample ID:JC20528-1AMS/-MSD			Matrix/	Level:Soi	<u> </u>	
MS OR MSD	COMPOUND			QC LIMITS	ACTION	
MS/MSD%_re	ecoveries_and_RPD_	within_lab	oratory_	control_limits		

- * QC limits are laboratory in-house performance criteria, LL = lower limit, UL = upper limit.
- * If QC limits are not available, use limits of 70 130 %.

Actions:

QUALITY	%R < LL	%R > UL
Positive results	J	J
Nondetects results	R	Accept

MS/MSD criteria apply only to the unspiked sample, its dilutions, and the associated MS/MSD samples:

If the % R for the affected compounds were < LL (or 70 %), qualify positive results (J) and nondetects (UJ).

If the % R for the affected compounds were > UL (or 130 %), only qualify positive results (J). If 25 % or more of all MS/MSD %R were < LL (or 70 %) or if two or more MS/MSD %Rs were < 10%, qualify all positive results (J) and reject nondetects (R).

All criteria were metX
Criteria were not met
and/or see below

VII. B MATRIX SPIKE/MATRIX SPIKE DUPLICATE

MS/MSD – Unspiked Compounds

Actions:

It should be noted that Region 2 SOP HW-24 does not specify a MS/MSD criteria for the unspiked compounds in the sample. A %RSD of < 50% has therefore been utilized as professional judgment.

If all target analytes were spiked in the MS/MSD, this review element is not applicable.

List the %RSD of the compounds which do not meet the criteria.

Sample ID:		Matrix/Level/Unit:				
COMPOUND	SAMPLE CONC.	MS CONC.	MSD CONC.	% RSD	ACTION	
		- 615				200
				No. of the last of		
	330			VU_ U U		-
The second second						

A separate worksheet should be used for each MS/MSD pair.

^{*} If the % RSD > 50, qualify the positive result in the unspiked samples as estimated (J).

^{*} If the % RSD is not calculated (NC) due to nondetected value, use professional judgment to qualify the data.

All criteria were met _	_X_	
Criteria were not met		
and/or see below		

VIII. LABORATORY CONTROL SAMPLE (LCS) ANALYSIS

This data is generated to determine accuracy of the analytical method for various matrices.

1. LCS Recoveries Criteria

Where LCS spiked with the same analyte at the same concentrations as the MS/MSD? Yes or No. If no make note in data review memo.

List the %R of compounds which do not meet the criteria

	LCS ID	COMPOUND	% R	QC LIMIT	
Recoveries_within_laboratory_control_limits					
·					<u> </u>

- QC limits are laboratory in-house performance criteria, LL = lower limit, UL = upper limit.
- If QC limits are not available, use limits of 70 130 %.

Actions:

QUALITY	%R < LL	%R > UL
Positive results	J	J
Nondetects results	R	Accept

All analytes in the associated sample results are qualified for the following criteria.

If 25 % of the LCS recoveries were < LL (or 70 %), qualify all positive results (j) and reject nondetects (R).

If two or more LCS were below 10 %, qualify all positive results as (J) and reject nondetects (R).

2. Frequency Criteria:

Where LCS analyzed at the required frequency and for each matrix? Yes or No. If no, the data may be affected. Use professional judgment to determine the severity of the effect and qualify data accordingly. Discuss any actions below and list the samples affected.

		All criteria were metN/A Criteria were not met and/or see below
IX.	FIELD/LABORATORY DUPLICATE PRECISION	
	Sample IDs:	Matrix:

Field/laboratory duplicates samples may be taken and analyzed as an indication of overall precision. These analyses measure both field and lab precision; therefore, the results may have more variability than laboratory duplicates which only laboratory performance. It is also expected that soil duplicate results will have a greater variance than water matrices due to difficulties associated with collecting identical field duplicate samples.

The project QAPP should be reviewed for project-specific information. Suggested criteria: RPD \pm 30% for aqueous samples, RPD \pm 50 % for solid samples. If both samples and duplicate are <5 SQL, the RPD criteria is doubled.

COMPOUND	SQL	SAMPLE CONC.	DUPLICATE CONC.	RPD	ACTION
			h this data package. MS		
asses	ss precis	ion. RPD within labo	oratory and generally ac	ceptable	control limits.

Actions:

Qualify as estimated positive results (J) and nondetects (UJ) for the compound that exceeded the above criteria. For organics, only the sample and duplicate will be qualified.

If an RPD cannot be calculated because one or both of the sample results is not detected, the following actions apply:

If one sample result is not detected and the other is greater than 5x the SQL qualify (J/UJ).

If one sample value is not detected and the other is greater than 5x the SQL and the SQLs for the sample and duplicate are significantly different, use professional judgment to determine if qualification is appropriate.

If one sample value is not detected and the other is less than 5x, use professional judgment to determine if qualification is appropriate.

If both sample and duplicate results are not detected, no action is needed.

All criteria were metN/A
Criteria were not met
and/or see below

X. INTERNAL STANDARD PERFORMANCE

The assessment of the internal standard (IS) parameter is used to assist the data reviewer in determining the condition of the analytical instrumentation.

List the internal standard area of samples which do not meet the criteria.

- * Area of +100% or -50% of the IS area in the associated calibration standard.
- * Retention time (RT) within 30 seconds of the IS area in the associated calibration standard.

DATE	SAMPLE ID	IS OUT	IS AREA	ACCEPTABLE RANGE	ACTION
77-					The state of the s
		· · · · · · · · · · · · · · · · · · ·			
					
7,559AL).					
					
		A STATE OF THE PARTY OF THE PAR	×		
The same of the sa		<u></u>	·		

Actions:

1. IS actions should be applied to the compound quantitated with the out-of-control ISs

QUALITY	IS AREA < -25%	IS AREA = -25 % TO - 50%	IS AREA > + 100%
Positive results	J	J	J
Nondetected results	R	UJ	ACCEPT

2. If a IS retention time varies more than 30 seconds, the chromatographic profile for that sample must be examined to determine if any false positive or negative exists. For shifts of a large magnitude, the reviewer may consider partial or total rejection of the data for the sample fraction.

Αll	crite	eria 1	were	met_	_X
Cri	teria	we	re no	t met	
an	d/or	see	belo	W	

XII. SAMPLE QUANTITATION

The sample quantitation evaluation is to verify laboratory quantitation results. In the space below, please show a minimum of one sample calculation:

Blank spike

sec-butyl alcohol

RF = 25.63

[] = (126610)/(25.63)

= 4,940 ppm OK

All criteria were met _	X
Criteria were not met	
and/or see below	

XII. QUANTITATION LIMITS

A. Dilution performed

SAMPLE ID	DILUTION FACTOR	REASON FOR DILUTION
· ····		
100		

Percent Solid	ds		
List samples	which have ≤ 50 % s	solids	
riat adminica	WIIIOII HAVE ≥ 30 /8 5	סטווטס	

Actions:

If the % solids of a soil sample is 10-50%, estimate positive results (J) and nondetects (UJ)

If the % solids of a soil sample is < 10%, estimate positive results (J) and reject nondetects (R) $\,$